



## Practical Test N301 Abrasive Wheels

<b>Test sequence</b>	<b>ACTIVITY GUIDELINES</b>  <b>The learner must: -</b> <ul style="list-style-type: none"> <li>• Complete all pre-start and running checks before any activity takes place</li> <li>• The shutdown and stow away procedures must only be completed by the learner at the end of the test</li> <li>• All additional test requirements can be completed over the period of the test duration</li> <li>• An examination of the wheels / blades must be carried out prior to any cutting or grinding activity taking place</li> </ul>
<b>Operator safety and observations</b>	<ul style="list-style-type: none"> <li>• An exclusion zone of at least 6m must be implemented prior to any activity starting (all activities)</li> <li>• An exclusion zone of at least 3m away from the work area (hand held grinding and cutting only)</li> <li>• Correct and appropriate fire retardant PPE must be worn</li> <li>• A jig or some sort of secure hold must be used for all cutting / grinding tasks (hand held only)</li> <li>• The correct tools must be available to enable the learner to dress the wheel correctly (bench mounted or pedestal only)</li> </ul>
<b>Work area</b>	<ul style="list-style-type: none"> <li>• Area must be clean with no proximity hazards, have a solid level surface and exclusion zones</li> </ul>
<b>Shutdown procedures</b>	<ul style="list-style-type: none"> <li>• Hand held machine placed in a secure position with the blade removed and places in an appropriate storage location</li> </ul>
<b>Additional notes</b>	<ul style="list-style-type: none"> <li>• A verbal description to the instructor of the pre-start checks would be acceptable if the machine is hot</li> <li>• The machines operator's manual must be accessible</li> <li>• Different types of blades / wheels must be mounted and used</li> <li>• Vitrified (pedestal and bench mounted), abrasive (aluminium oxide - silicon carbide) or multi-purpose cutting blades</li> </ul> <p>If cutting / grinding indoors there must be sufficient ventilation</p>
<b>Specifications</b>	<ul style="list-style-type: none"> <li>• There must be sufficient quantity of suitable material to cut / grind</li> <li>• A cutting / grinding jig should be available for use (if applicable)</li> <li>• There must be various cutting / grinding blades / wheels that illustrate both good and poor conditions</li> <li>• Demonstrate how to safely and correctly carry out cutting of material using a variety of cutting blades</li> <li>• Demonstrate how to correctly and safely carry out grinding tasks (hand held)</li> <li>• Demonstrate how to correctly and safely carry out grinding tasks (pedestal or bench mounted)</li> <li>• Demonstrate the correct procedure of truing and dressing a grinding wheel (pedestal or bench mounted)</li> <li>• Different ferrous, non-ferrous or non-metallic metals should be identified and used for the cutting / grinding tasks</li> </ul>
<b>Test timings</b>	<ul style="list-style-type: none"> <li>• Half day awareness course should cover the health and safety element, HSG17, pre-start checks, mounting and dismounting of blades and wheels as per test sheet</li> <li>• 1-day course should cover the health and safety element, HSG17, pre-start checks, mounting and dismounting of blades and wheels, cutting / grinding various materials, dressing a wheel as per test sheet</li> </ul>